

Exhibit 4: Estimated DNA Analysis Workload Worksheet

Human Remains

1. Enter the estimated number of victims.
2. Enter the estimated average fragmentation per victim.
(For airline disasters, this value usually ranges between five and eight; ten is a conservative estimate.)
3. **Expected number of human remains to analyze.**
Multiply lines 1 and 2.
4. **Total number of human remains to analyze, including rework.**
Multiply line 3 by the number 1.2.

Personal Items

5. Enter the estimated number of personal items collected per victim (typically between five and eight).
6. **Expected number of personal items to collect, store, and track.**
Multiply lines 1 and 5.
7. Enter the estimated number of personal items to be analyzed per victim (typically between two and four).
8. **Expected number of personal items to analyze.**
Multiply lines 1 and 7.
9. **Total number of personal items to analyze, including rework and quality control.**
Multiply line 8 by the number 1.25.

Kinship Samples

10. Enter the estimated number of biological relatives per victim (typically between three and four).
11. **Expected number of kinship swabs to analyze.**
Multiply lines 1 and 10.
12. **Expected number of kinship swabs to collect, store, and track.**
Multiply line 11 by the number of swabs collected (between two and six).